Rural Alaska Community Action Program, Inc.'s Energy Western Program Program



Rural Alaska Community Action Program, Inc. Jolene John, Community Development Manager 907-865-7358; jjohn@ruralcap.com



GOALS

- Save money on energy bills
 - Behavior change
 - Low-cost home upgrades
- Create jobs for rural Alaskans
 - Hire and train locally
 - Professional development and certification

EFFECTIVE BEHAVIOR CHANGE

- Message Delivered by Local Crews
 - 4- 10 hired per community, 6-12 weeks
 - Professional training and certification
- Energy Fair
 - Engages entire community
 - Residents sign-up for home assessment
- Home Visits Energy Assessments
 - 2-3 crew members, 1 full day (8 hours) per home
 - Residential survey
 - Residents participate in finding where energy is used and how to save
 - Review energy bills and potential savings
 - \$300 of energy efficiency supplies installed
- Follow-Up Education and Survey
 - 3 to 6 months after home assessment

COMPLIMENTS WEATHERIZATION

- Focus on education and behavior change
- Assists communities not recently served or to be served by Wx
- All homes eligible

HIRING and TRAINING LOCAL CREWS

- Crew members selected and trained on site
- Train for immediate employment and future careers







CREW CERTIFICATION

- Weatherization Tech 1
- Occupational Safety and Health Administration (OSHA)
- First Aid



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COMMUNITY INVOLVEMENT

- Tribal Council
- City Council
- School
- Church Group

- AmeriCorps/VISTA
- Youth Groups
- Parks and Recreation
- Other Energy Projects







\$300 IN ENERGY EFFICIENCY SUPPLIES



- Window insulation film
- Compact fluorescent lights
- Silicone and foam spray
- Weather stripping
- Jamb-up door kit and door sweep
- Foam tape and mounting tape
- Pipe insulation
- Faucet aerators, soap-up valve and low-flow shower heads
- Power strips with surge protectors
- Hygrometers
- Refrigerator thermometer and coil cleaners
- Outlet and light switch insulators, plug protectors
- Water heater blanket
- Fire alarm, extinguisher, and carbon monoxide detector



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Crews Show Residents How to Save Energy and Money



Residents Receive Follow-up Visit in 3-6 months

NANA - ENERGY WISE 2012-13 PARTNERS

- NANA Regional Corporation (\$900,000)
- 6 community tribal/city councils (in-kind support)
- Northwest Arctic Borough (TED meters, tech support)
- Denali Commission/State Department of Labor (\$297,239 to train crews in 2011/12 and 2012/13)
- U.S. Department of Energy (\$50,319 planning and evaluation planning)
- Alaska Works Partnership (in-kind training support)
- Alaska Energy Authority (educational materials)
- RurAL CAP (program implementation)

NANA – ENERGY WISE

Three Year Plan

2011

- Buckland
- Noatak
- Shungnak
- **Ambler**
- Noorvik
- Kivalina

2012

- Deering
- Kiana
- Kobuk
- Selawik
- Kotzebue (325)

2013

Kotzebue (564)

Total: 518 homes

Total: 549 homes

Total: 564 homes

NANA – ENERGY WISE 2011-12 Outcomes:

- 6 communities served
- 50 local individuals hired and trained
- 518 home visits
- 2,000 + people to receive energy efficiency and conservation education and resources
- Energy bill savings

IMPLEMENTATION TIMELINE

- September Crew Leaders hired
- October/November Crew Members hired and trained
- November Launch weeks (training, energy fairs, community involvement)
- November January: Home visits
- April 30 Follow-up home visits conducted
- May 31 Final report to NANA

2010 OUTCOMES – SUSTAINED CHANGE

Based on 700 follow-up home surveys:

- 86% reported they were still practicing energy efficiency and conservation measures
- 80% reported decreased electric bills
- 82% reported decreased home heating costs

2010 AVERAGE MONTHLY ELECTRICAL SAVINGS

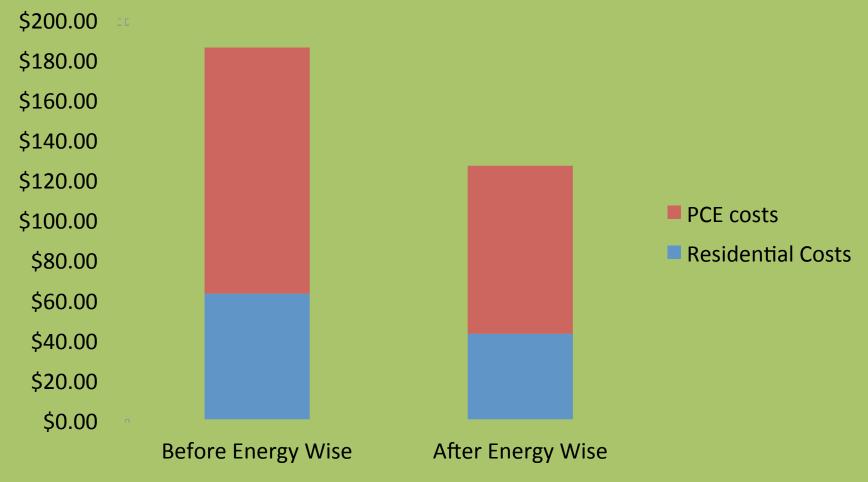
Before Energy Wise:

- \$186 = 287 kWh/month
 - \$63 is paid by resident (\$0.218)
 - \$123 is covered by PCE (\$0.427)

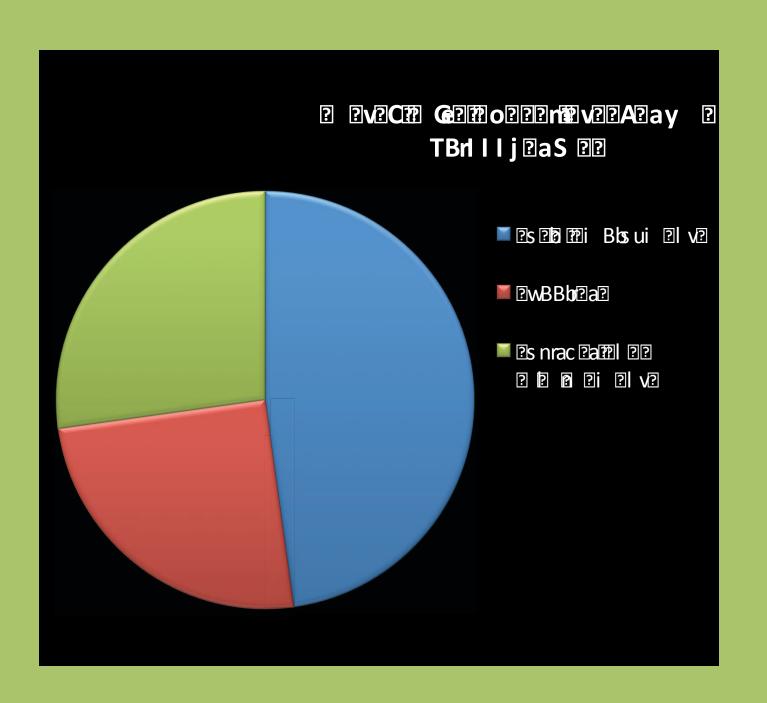
After Energy Wise:

- \$127 = 195 kWh/month
 - \$43 paid by resident = \$20 savings
 - \$84 is covered by PCE = \$39 savings
- > 90 kWh/month reduction
- minimum \$59 reduction in resident/PCE electricity costs

ENERGY WISE 2010 Average Monthly Electrical Savings*



^{*}Based on ISER evaluation compiled with AVEC data for a sampling of 2010 RurAL CAP Energy Wise communities



PROJECT PAYBACK

- Residents save:
 - \$50/month in heating & electricity = \$600/year
- State saves PCE reduction:
 - \$39/month = \$468/year
- Project cost is just under \$2,000/home:
 - Annual savings = \$1,068/year
- Project payback in savings = less than 2 years

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